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# TECHNICAL

# NOTES

## LAKE STATES FOREST EXPERIMENT STATION U.S. DEPARTMENT OF AGRICULTURE · FOREST SERVICE

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### Production and Imports of Pulpwood Decline in the Lake States, 1961

Pulpwood production in the Lake States, which has been rising almost without interruption since 1953, gave ground in 1961 with the output dropping below that of the previous year. The Lake States harvest amounted to approximately 3,152,000 cords, 6 percent less than the all-time high of 3,337,000 cords cut in 1960.

Wisconsin production registered a slight increase while Michigan and Minnesota fell below the level of the previous year. Michigan remains the leading pulpwood producing State in the Region by a scant margin of some 20,000 cords.

Production of most species showed decreases from the previous year. The cut of tamarack, balsam fir, and aspen declined the most, dropping 34, 14, and 9 percent, respectively. Despite the general downward trend, white birch and miscellaneous dense hardwoods registered gains of 40 and 14 percent, respectively. The maples, oaks, and other dense hardwoods were cut more heavily for pulpwood than ever before.

Local demand for plant residues and wood chips amounted to nearly 25,000 cords in 1961, almost double that of 1960. At the present time, local use of such material is limited to five Wisconsin mills. Exports of wood chips and plant residues to other States remained unchanged.

Total 1961 pulpwood receipts at Lake States mills were about 3½ million cords, a decrease of 7 percent from the previous year. Receipts at Michigan and Wisconsin mills were down 14 percent and 7 percent respectively; those of Minnesota mills remained unchanged. Lake States forests supplied 90 percent of the pulpwood received, Canada 9 percent, and Western States 1 percent (see table below).

The table on the reverse side is a record of pulpwood production, imports, and exports for the Lake States, by species.

Geographic origin and destination of pulpwood received  
by Lake States mills, 1961

| Species                       | Percent of pulpwood<br>originating from: |      |       |        |                  | Percent of pulpwood<br>received by mills in: |      |       |
|-------------------------------|--|------|-------|--------|------------------|--|------|-------|
|                               | Minn.                                    | Wis. | Mich. | Canada | Other:<br>U. S.: | Minn.  | Wis. | Mich. |
|                               | :  | :    | :     | :      | :                | :  | :    | :     |
| Aspen                         | 25                                       | 36   | 38    | 1      | -                | 26   | 50   | 24    |
| Balsam fir                    | 35                                       | 19   | 36    | 10     | -                | 21   | 57   | 22    |
| Birch                         | 3  | 66   | 31    | -      | -                | 3  | 85   | 12    |
| Hemlock                       | -  | 52   | 48    | -      | -                | -  | 100  | -     |
| Pine                          | 33                                       | 24   | 25    | 11     | 7                | 30   | 53   | 17    |
| Spruce                        | 43                                       | 4    | 18    | 35     | -                | 22   | 64   | 14    |
| Tamarack                      | 41                                       | 37   | 22    | -      | -                | -  | 100  | -     |
| Misc. hardwoods <sup>1/</sup> | 10                                       | 61   | 29    | -      | -                | 11   | 61   | 28    |
| Slabs, etc.                   | -  | 67   | 33    | -      | -                | -  | 100  | -     |
| Wood chips                    | -  | 35   | 65    | -      | -                | -  | 100  | -     |
| All wood material             | 28                                       | 31   | 31    | 9      | 1                | 23   | 57   | 20    |
| Previous year (1960)          | 28                                       | 28   | 33    | 9      | 2                | 21   | 57   | 22    |

<sup>1/</sup> Mostly dense hardwoods

July 1962

(Over)

A. G. Horn, Research Forester



Production and imports of pulpwood, Lake States, 1961

(In standard cords, unpeeled)

| Species and destination | Production by states <sup>1/</sup> |           |           |           |                           | Imports |               |                |
|-------------------------|------------------------------------|-----------|-----------|-----------|---------------------------|---------|---------------|----------------|
|                         | Minnesota                          | Wisconsin | Michigan  | Region    | Other U. S. <sup>2/</sup> | Canada  | Total imports | Total receipts |
| Aspen                   |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 351,603                            | 14,144    | -         | 365,747   | -                         | 9,214   | 9,214         | 374,961        |
| Wis.                    | 16,907                             | 515,548   | 208,181   | 740,636   | -                         | -       | -             | 740,636        |
| Mich.                   | -                                  | 423       | 350,119   | 350,542   | -                         | -       | -             | 350,542        |
| Total                   | 368,510                            | 530,115   | 558,300   | 1,456,925 | -                         | 9,214   | 9,214         | 1,466,139      |
| Balsam fir              |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 63,309                             | -         | -         | 63,309    | -                         | 4,158   | 4,158         | 67,467         |
| Wis.                    | 41,645                             | 60,668    | 74,894    | 177,207   | -                         | 26      | 26            | 177,233        |
| Mich.                   | -                                  | 102       | 39,708    | 39,810    | -                         | 27,941  | 27,941        | 67,751         |
| Exported <sup>3/</sup>  | 5,596                              | -         | -         | 5,596     | -                         | -       | -             | -              |
| Total                   | 110,550                            | 60,770    | 114,602   | 285,922   | -                         | 32,125  | 32,125        | 312,451        |
| Birch, white            |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 1,392                              | -         | -         | 1,392     | -                         | -       | -             | 1,392          |
| Wis.                    | 71                                 | 33,961    | 9,767     | 43,799    | -                         | -       | -             | 43,799         |
| Mich.                   | -                                  | -         | 6,291     | 6,291     | -                         | -       | -             | 6,291          |
| Total                   | 1,463                              | 33,961    | 16,058    | 51,482    | -                         | -       | -             | 51,482         |
| Hemlock                 |                                    |           |           |           |                           |         |               |                |
| Minn.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Wis.                    | -                                  | 47,498    | 44,114    | 91,612    | -                         | -       | -             | 91,612         |
| Mich.                   | -                                  | -         | 247       | 247       | -                         | -       | -             | 247            |
| Total                   | -                                  | 47,498    | 44,361    | 91,859    | -                         | -       | -             | 91,859         |
| Pine                    |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 146,229                            | 208       | -         | 146,437   | -                         | 40,600  | 40,600        | 187,037        |
| Wis.                    | 59,259                             | 154,140   | 46,712    | 260,111   | 44,027                    | 26,164  | 70,191        | 330,302        |
| Mich.                   | -                                  | -         | 108,991   | 108,991   | -                         | -       | -             | 108,991        |
| Total                   | 205,488                            | 154,348   | 155,703   | 515,539   | 44,027                    | 66,764  | 110,791       | 626,330        |
| Spruce                  |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 115,951                            | -         | -         | 115,951   | -                         | 3,804   | 3,804         | 119,755        |
| Wis.                    | 114,642                            | 22,935    | 64,710    | 202,287   | -                         | 147,502 | 147,502       | 349,789        |
| Mich.                   | -                                  | 13        | 31,660    | 31,673    | -                         | 43,273  | 43,273        | 74,946         |
| Exported <sup>3/</sup>  | 9,845                              | -         | -         | 9,845     | -                         | -       | -             | -              |
| Total                   | 240,438                            | 22,948    | 96,370    | 359,756   | -                         | 194,579 | 194,579       | 544,490        |
| Tamarack                |                                    |           |           |           |                           |         |               |                |
| Minn.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Wis.                    | 7,808                              | 6,876     | 4,187     | 18,871    | -                         | -       | -             | 18,871         |
| Mich.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Total                   | 7,808                              | 6,876     | 4,187     | 18,871    | -                         | -       | -             | 18,871         |
| Misc. dense hwdws.      |                                    |           |           |           |                           |         |               |                |
| Minn. <sup>4/</sup>     | 33,851                             | -         | -         | 33,851    | -                         | -       | -             | 33,851         |
| Wis. <sup>4/</sup>      | -                                  | 191,391   | 4,543     | 195,934   | -                         | -       | -             | 195,934        |
| Mich. <sup>4/</sup>     | -                                  | -         | 90,886    | 90,886    | -                         | -       | -             | 90,886         |
| Exported <sup>3/</sup>  | -                                  | 9,200     | -         | 9,200     | -                         | -       | -             | -              |
| Total                   | 33,851                             | 200,591   | 95,429    | 329,871   | -                         | -       | -             | 320,671        |
| Total roundwood         |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 712,335                            | 14,352    | -         | 726,687   | -                         | 57,776  | 57,776        | 784,463        |
| Wis.                    | 240,332                            | 1,033,017 | 457,108   | 1,730,457 | 44,027                    | 173,692 | 217,719       | 1,948,176      |
| Mich.                   | -                                  | 538       | 627,902   | 628,440   | -                         | 71,214  | 71,214        | 699,654        |
| Exported <sup>3/</sup>  | 15,441                             | 9,200     | -         | 24,641    | -                         | -       | -             | -              |
| Total                   | 968,108                            | 1,057,107 | 1,085,010 | 3,110,225 | 44,027                    | 302,682 | 346,709       | 3,432,293      |
| Slabs, etc.             |                                    |           |           |           |                           |         |               |                |
| Minn.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Wis.                    | -                                  | 10,578    | 4,967     | 15,545    | -                         | -       | -             | 15,545         |
| Mich.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Exported <sup>3/</sup>  | -                                  | 3,128     | 1,920     | 5,048     | -                         | -       | -             | -              |
| Total                   | -                                  | 13,706    | 6,887     | 20,593    | -                         | -       | -             | 15,545         |
| Wood chips              |                                    |           |           |           |                           |         |               |                |
| Minn.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Wis.                    | -                                  | 6,401     | 1,881     | 8,282     | -                         | -       | -             | 8,282          |
| Mich.                   | -                                  | -         | -         | -         | -                         | -       | -             | -              |
| Exported <sup>3/</sup>  | -                                  | 1,174     | 12,064    | 13,238    | -                         | -       | -             | -              |
| Total                   | -                                  | 7,575     | 13,945    | 21,520    | -                         | -       | -             | 8,282          |
| All wood material       |                                    |           |           |           |                           |         |               |                |
| Minn.                   | 712,335                            | 14,352    | -         | 726,687   | -                         | 57,776  | 57,776        | 784,463        |
| Wis.                    | 240,332                            | 1,049,996 | 463,956   | 1,754,284 | 44,027                    | 173,692 | 217,719       | 1,972,003      |
| Mich.                   | -                                  | 538       | 627,902   | 628,440   | -                         | 71,214  | 71,214        | 699,654        |
| Exported <sup>3/</sup>  | 15,441                             | 13,502    | 13,984    | 42,927    | -                         | -       | -             | -              |
| Total                   | 968,108                            | 1,078,388 | 1,105,842 | 3,152,338 | 44,027                    | 302,682 | 346,709       | 3,456,120      |

<sup>1/</sup> Vertical columns of figures under box heading "Production by States" present the amount of pulpwood cut in each State.

<sup>2/</sup> Mostly Western States.

<sup>3/</sup> Pulpwood shipped to mills outside of Region.

<sup>4/</sup> Some balsam poplar (Balm-of-Gilead) in Minnesota, mostly dense hardwoods in other States.